

# INDEX TO VOLUME 53

- Alkumru A.* see *Idemen M.*
- Antipov Y. A.* and *Gao H.*—Exact solution of integro-differential equations of diffusion along a grain boundary 645
- Arrese J. C.* see *Fernandez-Feria R.*
- Aslanyan A.*, *Parnovski L.* and *Vassiliev D.*—Complex resonances in acoustic waveguides 429
- Atkinson C.*—Exact solutions of mode-3 wedge-crack problems in a medium with a general nonlinear stress-strain relation 137
- Bassom A. P.* see *Ludlow D. K.*
- Bassom A. P.* see *May A.*
- Beatty M. F.* and *Hill J. M.*—A note on some general integrals arising in plane finite elasticity 421
- Biggs N. R. T.*, *Porter D.* and *Stirling D. S. G.*—Wave diffraction through a perforated breakwater 375
- Billingham J.*—On modelling the formation of micelles in the presence of a slow influx of monomer 285
- Bowles R. G. A.* and *Smith F. T.*—Interactive flow past multiple blades and wakes 207
- Chudinovich I.*, *Constanda C.* and *Koshchii A.*—The classical approach to dual methods for plates 497
- Clarkson P. A.* see *Ludlow D. K.*
- Constanda C.* see *Chudinovich I.*
- Cummings L. J.* and *Rubinstein J.*—A fluid and heat flow problem arising in the soup-canning industry 583
- Destrade M.*—Finite-amplitude inhomogeneous plane waves in a deformed Mooney-Rivlin material 343
- Erbay H. A.*, *Fu Y. B.* and *Rogerson G. A.*—Effects of pre-stress on impact waves in an incompressible elastic plate 531

- Evans J. D. and King J. R.*—Asymptotic results for the Stefan problem with kinetic undercooling 449
- Fernandez-Feria R. and Arrese J. C.*—Boundary layer induced by a conical vortex 609
- Fu Y. B.* see *Erbay H. A.*
- Gao H.* see *Antipov Y. A.*
- Giorgi C. and Naso M. G.*—Mathematical models of thin thermoviscoelastic plates 363
- Grant A. D. and Lawrie J. B.*—Propagation of fluid-loaded structural waves along a duct with smoothly varying bending characteristics 299
- Hill J. M.* see *Beatty M. F.*
- Hill J. M.*—Some symmetrical cavity problems for a hypoplastic granular material 111
- Hocking L. M.*—Draining a liquid from a well into a porous medium 551
- Idemen M. and Alkumru A.*—A generalization of the Wiener-Hopf approach to direct and inverse scattering problems connected with non-homogeneous half-spaces bounded by  $n$ -part boundaries 393
- Jones D. S.*—Rawlins' method and the diaphanous cone 91
- Kaplunov J. D., Kossovich L. Yu and Rogerson G. A.*—Direct asymptotic integration of the equations of transversely isotropic elasticity for a plate near cut-off frequencies 323
- King J. R.* see *Evans J. D.*
- Koshchii A.* see *Chudinovich I.*
- Kossovich L. Yu* see *Kaplunov J. D.*
- Kuiken H. K.*—Free-convection-assisted shape-preserving dissolution or etching of a rotationally symmetric body 253
- Laborde P. and Petitjean F.*—Computation of form-invariant response functions in elasticity 73
- Lawrie J. B.* see *Grant A. D.*
- Leppington F. G. and Papanikolaou I.*—Asymptotic analysis for the diffraction of sound by closely spaced and lightly loaded semi-infinite flexible surfaces 263
- Leslie D. J. and Scott N. H.*—Wave stability for incompressibility at uniform temperature or entropy in generalized isotropic thermoelasticity 1

- Ludlow D. K., Clarkson P. A. and Bassom A. P.*—New similarity solutions of the unsteady incompressible boundary-layer equations 175
- Mansfield E. H.*—Thermal stresses in a thin membrane covering an arbitrarily shaped object: equilibrium and derived identities 43
- May A. and Bassom A. P.*—Nonlinear convection in the boundary layer above a sinusoidally heated flat plate 475
- McCue S. W. and Stump D. M.*—Linear stern waves in finite depth channels 629
- Naso M. G.* see *Giorgi C.*
- Ng B. S. and Reid W. H.*—Asymptotic analysis of a fourth-order turning-point problem in hydrodynamic stability 27
- Papanikolaou I.* see *Leppington F. G.*
- Parnowski L.* see *Aslanyan A.*
- Petitjean F.* see *Laborde P.*
- Porter D.* see *Biggs N. R. T.*
- Reid W. H.* see *Ng B. S.*
- Richardson G.*—Line disclination dynamics in uniaxial nematic liquid crystals 49
- Rogerson G. A.* see *Erbay H. A.*
- Rogerson G. A.* see *Kaplunov J. D.*
- Schwartz L. W.* see *Stokes Y. M.*
- Scott N. H.* see *Leslie D. J.*
- Smith F. T.* see *Bowles R. G. A.*
- Smith W. R.*—Mathematical modelling of thermal hot-spots in semiconductor laser operation 149
- Stirling D. S. G.* see *Biggs N. R. T.*
- Stokes Y. M., Tuck E. O. and Schwartz L. W.*—Extensional fall of a very viscous fluid drop 565
- Stump D. M.* see *McCue S. W.*
- Ting T. C. T.*—Anisotropic elastic constants that are structurally invariant 511
- Tuck E. O.* see *Stokes Y. M.*

*Vassiliev D.* see *Aslanyan A.*

*Wang C. Y.*—Asymptotic formula for flow in a tube with longitudinal rods 525

*Zlatanovski T.*—Corrigendum: Axisymmetric creeping flow past a porous prolate spheroidal particle using the Brinkman model 173

